

## WHAT IS CLAIMED IS:

1. (canceled)
2. (currently amended) The device according to claim 20 [1], wherein the at least one first exhaust air line (~~40~~) of the process at least one processing device (~~2~~) opens into ~~an exhaust air~~ the return line (~~6~~) of the at least one work room (~~3~~).
3. (currently amended) The device according to claim 20 [1], wherein the at least one first filter (~~44~~) is an ion exchanger.
4. (currently amended) The device according to claim 20 [1], wherein the at least one work room (~~3~~) is a storage room and wherein the exhaust air removed from the storage room is container breathing air or leakage air of a chemical container.
5. (currently amended) The device according to claim 20 [1], comprising at least one sensor (~~26~~) arranged in the at least one first exhaust air line (~~40~~) of the at least one processing device (~~2~~) for risk detection.
6. (currently amended) The device according to claim 5, wherein the at least one sensor (~~26~~) is arranged downstream of the at least one first filter (~~44~~) in the flow direction of the exhaust air flowing in the at least one first exhaust line (~~40~~) of the at least one processing device (~~2~~).
7. (currently amended) The device according to claim 20 [1], wherein the at least one first filter (~~44~~) is configured to be regenerated.
8. (currently amended) The device according to claim 20 [1], further comprising at least one second filter (~~42~~) correlated with the at least one first filter (~~44~~), wherein the at least one second filter (~~42~~) is connected parallel, connected in series, or connected in series and parallel to the at least one first filter (~~44~~).
9. (currently amended) The device according to claim 8, wherein the first and second filters (~~44, 42~~) are switchable to be connected to a regeneration circuit and are configured to be regenerated.
10. (currently amended) The device according to claim 9, comprising at least one storage tank (~~44~~) for a regeneration medium positioned in the regeneration circuit.
11. (currently amended) The device according to claim 9, wherein the first

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and second filters ~~(11,12)~~ are parallel connected and configured to be alternately connected to the regeneration circuit.

12. (original) The device according to claim 9, wherein the regeneration circuit contains a regeneration medium, wherein the regeneration medium is an acid or a base.

13. (currently amended) The device according to claim 8, wherein the at least one second filter ~~(12)~~ is configured identically to the at least one first filter ~~(11)~~.

14. (currently amended) The device according to claim 12 [13], wherein the acid is hydrochloric acid or sulfuric acid and wherein the base is sodium hydroxide.

15. (currently amended) The device according to claim 6, wherein the at least one second filter ~~(12)~~ is an ion exchanger.

16. (canceled)

17. (currently amended) The method according to claim 21 [16], further comprising the step of regenerating a filter medium of the at least one first filter ~~(11,12)~~ during cleaning of the pollutant-laden exhaust air.

18. (currently amended) The method according to claim 21 [17], wherein during the step of regenerating the exhaust air of the at least one processing device ~~(2)~~ is guided through at least one second filter ~~(12)~~.

19. (currently amended) The method according to claim 18, wherein one of the first and second filters ~~(11,12)~~ is regenerated while another of the first and second filters is used for cleaning the exhaust air of the at least one processing device ~~(2)~~.

20. (new) A device for exhaust air processing of clean rooms, the device comprising:

at least one fresh air supply having at least one supply line;

at least one exhaust air device;

at least one work room;

at least one processing device arranged in the at least one work room;

a recirculating air device;

wherein the at least one supply line is connected to the at least one work room;

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wherein the at least one air supply line has a branch line connected to the at least one processing device;

at least one first exhaust air line connected to the at least one processing device for removing exhaust air from the processing device;

at least one second exhaust air line connected to the at least one exhaust air device for exhausting air from the at least one processing device through the at least one exhaust air device;

at least one first filter arranged in the at least one first exhaust air line;

wherein the at least one first exhaust air line returns exhaust air that has been filtered in the at least one first filter device to the at least one air supply line;

wherein the at least one work room has at least one return line connected to the recirculating device and wherein the recirculating device is connected to the at least one supply line.

21. (new) A method for exhaust air processing in a device comprising at least one fresh air supply having at least one supply line; at least one exhaust air device; at least one work room; at least one processing device arranged in the at least one work room; a recirculating air device; wherein the at least one supply line is connected to the at least one work room; wherein the at least one air supply line has a branch line connected to the at least one processing device; at least one first exhaust air line connected to the at least one processing device for removing exhaust air from the processing device; at least one second exhaust air line connected to the at least one exhaust air device for exhausting air from the at least one processing device through the at least one exhaust air device; at least one first filter arranged in the at least one first exhaust air line; wherein the at least one first exhaust air line returns exhaust air that has been filtered in the at least one first filter device to the at least one air supply line; wherein the at least one work room has at least one return line connected to the recirculating device and wherein the recirculating device is connected to the at least one supply line; wherein the method comprises the steps of:

supplying supply air as a supply air flow to at least one work room and directly to at least one processing device through a branch line;

cleaning a pollutant-laden exhaust air stream exiting the at least one

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processing device by a filter arranged in an exhaust air line connected to the least one processing device to remove high-risk pollutants; and  
returning the exhaust air stream after cleaning into the supply air flow.

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